

**LOS ANGELES COUNTY URBAN RUNOFF AND STORM WATER NPDES PERMIT**

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**STANDARD URBAN STORM WATER MITIGATION PLAN**

**BACKGROUND**

The municipal storm water National Pollutant Discharge Elimination System (NPDES) permit was issued to Los Angeles County and 85 cities by the Los Angeles Regional Water Quality Control Board (Regional Board) on July 15, 1996, required the development and implementation of a program addressing storm water pollution issues in development planning for private projects. The same requirements are applicable to the City of Long Beach under its separate municipal storm water permit, which was issued on June 30, 1999.

The requirement to implement a program for development planning is based on, federal and state statutes including: Section 402 (p) of the Clean Water Act, Section 6217 of the Coastal Zone Act Reauthorization Amendments of 1990 ("CZARA"), and the California Water Code. The Clean Water Act amendments of 1987 established a framework for regulating storm water discharges from municipal, industrial, and construction activities under the NPDES program. The primary objectives of the municipal storm water program requirements are to:

1. Effectively prohibit non-storm water discharges, and
2. Reduce the discharge of pollutants from storm water conveyance systems to the Maximum Extent Practicable (MEP statutory standard).

The Standard Urban Storm Water Mitigation Plan (SUSMP) was developed as part of the municipal storm water program to address storm water pollution from new Development and Redevelopment by the private sector. This SUSMP contains a list of the minimum required Best Management Practices (BMPs) that must be used for a designated project. Additional BMPs may be required by ordinance or code adopted by the Permittee and applied generally or on a case by case basis. The Permittees are required to adopt the requirements set herein in their own SUSMP. Developers must incorporate appropriate SUSMP requirements into their project plans. Each Permittee will approve the project plan as part of the development plan approval process and prior to issuing building and grading permits for the projects covered by the SUSMP requirements.

On December 13, 2001, the Regional Board issued a new NPDES Permit (2001 Los Angeles County MS4 Permit) to the Los Angeles County Flood Control District, the County of Los Angeles, and 84 cities (Permittees). The following SUSMP requirements have been updated to reflect the 2001 Permit requirements.

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All projects that fall into one of nine categories are identified in the 2001 Los Angeles County MS4 Permit as requiring SUSMPs. These categories are:

- Single-family hillside home (only development of one acre or more of surface area is subject to the SUSMP numerical design criteria requirement);
- Ten or more unit homes (including single family homes, multifamily homes, condominiums, and apartments);
- A 100,000 or more square feet of impervious surface area industrial/commercial developments;
- Automotive service facilities (SIC 5013, 5014, 5541, 7532-7534, and 7536-7539);
- Retail gasoline outlets;
- Restaurants (SIC 5812);
- Parking lots 5,000 square feet or more of surface area or with 25 or more parking spaces;
- Redevelopment projects in subject categories that meet Redevelopment thresholds; and
- Location within or directly adjacent to or discharging directly to an environmentally sensitive area.

The City of Long Beach permit requires SUSMP for the following categories only: (i) 10-99 home subdivisions; (ii) 100 or more subdivisions; (iii) 100,000 or more square foot commercial developments; and (iv) Projects located adjacent to or discharging to environmentally sensitive areas. For the remaining five categories, equivalent requirements have been included directly in or are expected to be developed shortly under the City of Long Beach Storm Water Management Plan.

Permittees shall amend codes and ordinances, if necessary, not later than August 1, 2002, to give legal effect to the SUSMP requirements. The SUSMP requirements for projects identified herein shall take effect not later than September 2, 2002.

#### **DEFINITIONS**

“100,000 Square Foot Commercial Development” means any commercial development that creates at least 100,000 square feet of impermeable area, including parking areas.

“Automotive Service Facilities” means a facility that is categorized in any one of the following Standard Industrial Classification (SIC) codes: 5013, 5014, 5541, 7532-7534, or 7536-7539.

“Best Management Practice (BMP)” means methods, measures, or practices designed and selected to reduce or eliminate the discharge of pollutants to surface waters from point and nonpoint source discharge including storm water. BMPs include structural and nonstructural controls, and operation and maintenance procedures, which can be applied before, during, and/or after pollution producing activities.

“Commercial Development” means any development on private land that is not heavy industrial or residential. The category includes, but is not limited to: hospitals, laboratories and other medical facilities, educational institutions, recreational facilities,

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plant nurseries, multi-apartment buildings, car wash facilities, mini-malls and other business complexes, shopping malls, hotels, office buildings, public warehouses and other light industrial complexes.

“Directly Connected Impervious Area (DCIA)” means the area covered by a building, impermeable pavement, and/ or other impervious surfaces, which drains directly into the storm drain without first flowing across permeable land area (e.g. lawns).

“Environmentally Sensitive Area” means an area “in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which would be easily disturbed or degraded by human activities and developments” (California Public Resources Code § 30107.5). Areas subject to storm water mitigation requirements are: areas designated as Significant Ecological by the County of Los Angeles (Los Angeles County Significant Areas Study, Los Angeles County Department of Regional Planning (1976) and amendments); an area designated as a Significant Natural Area by the California Department of Fish and Game’s Significant Natural Areas Program, provided that area has been field verified by the Department of Fish and Game; an area listed in the Basin Plan as supporting the “Rare, Threatened, or Endangered Species (RARE)” beneficial use; and an area identified by a Permittee as environmentally sensitive.

“Hillside” means property located in an area with known erosive soil conditions, where the development contemplates grading on any natural slope that is twenty-five percent or greater.

“Infiltration” means the downward entry of water into the surface of the soil.

“New Development” means land disturbing activities; structural development, including construction or installation of a building or structure, creation of impervious surfaces; and land subdivision.

“Parking Lot” means land area or facility for the parking or storage of motor vehicles used for business, commerce, industry, or personal use, with a lot size of 5,000 square feet or more of surface area, or with 25 or more parking spaces.

“Redevelopment” means a) land-disturbing activity that results in the creation, addition, or replacement of 5,000 square feet or more of impervious surface area on an already developed site. Where Redevelopment results in an alteration to more than fifty percent of impervious surfaces of a previously existing development, and the existing development was not subject to post development storm water quality control requirements, the entire project must be mitigated. Where Redevelopment results in an alteration to less than fifty percent of impervious surfaces of a previously existing development, and the existing development was not subject to post development storm water quality control requirements, only the alteration must be mitigated, and not the entire development. b) Redevelopment does not include routine maintenance to maintain original line and grade, hydraulic capacity, or original purpose of facility, nor does it include emergency construction activities required to immediately protect public

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health and safety. c) Existing single-family structures are exempt from the Redevelopment requirements.

“Restaurant” means a facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption. (SIC code 5812).

“Retail Gasoline Outlet” means any facility engaged in selling gasoline and lubricating oils.

“Source Control BMP” means any schedules of activities, prohibitions of practices, maintenance procedures, managerial practices or operational practices that aim to prevent storm water pollution by reducing the potential for contamination at the source of pollution.

“Storm Event” means a rainfall event that produces more than 0.1 inch of precipitation and that, which is separated from the previous storm event by at least 72 hours of dry weather.

“Structural BMP” means any structural facility designed and constructed to mitigate the adverse impacts of storm water and urban runoff pollution (e.g. canopy, structural enclosure). The category may include both Treatment Control BMPs and Source Control BMPs.

“Treatment” means the application of engineered systems that use physical, chemical, or biological processes to remove pollutants. Such processes include, but are not limited to, filtration, gravity settling, media adsorption, biodegradation, biological uptake, chemical oxidation and UV radiation.

“Treatment Control BMP” means any engineered system designed to remove pollutants by simple gravity settling of particulate pollutants, filtration, biological uptake, media adsorption or any other physical, biological, or chemical process.

**SUSMP PROVISIONS APPLICABLE TO ALL CATEGORIES**

**1. PEAK STORM WATER RUNOFF DISCHARGE RATES**

Post-development peak storm water runoff discharge rates shall not exceed the estimated pre-development rate for developments where the increased peak storm water discharge rate will result in increased potential for downstream erosion.

**2. CONSERVE NATURAL AREAS**

If applicable, the following items are required and must be implemented in the site layout during the subdivision design and approval process, consistent with applicable General Plan and Local Area Plan policies:

- Concentrate or cluster Development on portions of a site while leaving the remaining land in a natural undisturbed condition.
- Limit clearing and grading of native vegetation at a site to the minimum amount needed to build lots, allow access, and provide fire protection.
- Maximize trees and other vegetation at each site by planting additional vegetation, clustering tree areas, and promoting the use of native and/or drought tolerant plants.
- Promote natural vegetation by using parking lot islands and other landscaped areas.
- Preserve riparian areas and wetlands.
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**3. MINIMIZE STORM WATER POLLUTANTS OF CONCERN**

Storm water runoff from a site has the potential to contribute oil and grease, suspended solids, metals, gasoline, pesticides, and pathogens to the storm water conveyance system. The development must be designed so as to minimize, to the maximum extent practicable, the introduction of pollutants of concern that may result in significant impacts, generated from site runoff of directly connected impervious areas (DCIA), to the storm water conveyance system as approved by the building official. Pollutants of concern, consist of any pollutants that exhibit one or more of the following characteristics: current loadings or historic deposits of the pollutant are impacting the beneficial uses of a receiving water, elevated levels of the pollutant are found in sediments of a receiving water and/or have the potential to bioaccumulate in organisms therein, or the detectable inputs of the pollutant are at a concentrations or loads considered potentially toxic to humans and/or flora and fauna.

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In meeting this specific requirement, “minimization of the pollutants of concern” will require the incorporation of a BMP or combination of BMPs best suited to maximize the reduction of pollutant loadings in that runoff to the Maximum Extent Practicable. Those BMPs best suited for that purpose are those listed in the *California Storm Water Best Management Practices Handbooks*; *Caltrans Storm Water Quality Handbook: Planning and Design Staff Guide*; *Manual for Storm Water Management in Washington State*; *The Maryland Stormwater Design Manual*; *Florida Development Manual: A Guide to Sound Land and Water Management*; *Denver Urban Storm Drainage Criteria Manual, Volume 3 – Best Management Practices and Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters*, USEPA Report No. EPA-840-B-92-002, as “likely to have significant impact” beneficial to water quality for targeted pollutants that are of concern at the site in question. However, it is possible that a combination of BMPs not so designated, may in a particular circumstance, be better suited to maximize the reduction of the pollutants.

Examples of BMPs that can be used for minimizing the introduction of pollutants of concern generated from site runoff are identified in Table 2. Any BMP not specifically approved by the Regional Board in Resolution No. 99-03, “Approving Best Management Practices for Municipal Storm Water and Urban Runoff Programs in Los Angeles County”, for development planning may be used if they have been recommended in one of the above references.

#### 4. PROTECT SLOPES AND CHANNELS

Project plans must include BMPs consistent with local codes and ordinances and the SUSMP to decrease the potential of slopes and/or channels from eroding and impacting storm water runoff:

- Convey runoff safely from the tops of slopes and stabilize disturbed slopes.
- Utilize natural drainage systems to the maximum extent practicable
- Control or reduce or eliminate flow to natural drainage systems to the maximum extent practicable
- Stabilize permanent channel crossings.
- Vegetate slopes with native or drought tolerant vegetation.
- Install energy dissipaters, such as riprap, at the outlets of new storm drains, culverts, conduits, or channels that enter unlined channels in accordance with applicable specifications to minimize erosion, with the approval of all agencies with jurisdiction, e.g., the U.S. Army Corps of Engineers and the California Department of Fish and Game

## **5. PROVIDE STORM DRAIN SYSTEM STENCILING AND SIGNAGE**

Storm drain stencils are highly visible source controls that are typically placed directly adjacent to storm drain inlets. The stencil contains a brief statement that prohibits the dumping of improper materials into the storm water conveyance system. Graphical icons, either illustrating anti-dumping symbols or images of receiving water fauna, are effective supplements to the anti-dumping message.

- All storm drain inlets and catch basins within the project area must be stenciled with prohibitive language (such as: “NO DUMPING – DRAINS TO OCEAN”) and/or graphical icons to discourage illegal dumping.
- Signs and prohibitive language and/or graphical icons, which prohibit illegal dumping, must be posted at public access points along channels and creeks within the project area.
- Legibility of stencils and signs must be maintained.

## **6. PROPERLY DESIGN OUTDOOR MATERIAL STORAGE AREAS**

Outdoor material storage areas refer to storage areas or storage facilities solely for the storage of materials. Improper storage of materials outdoors may provide an opportunity for toxic compounds, oil and grease, heavy metals, nutrients, suspended solids, and other pollutants to enter the storm water conveyance system. Where proposed project plans include outdoor areas for storage of materials that may contribute pollutants to the storm water conveyance system, the following Structural or Treatment BMPs are required:

- Materials with the potential to contaminate storm water must be: (1) placed in an enclosure such as, but not limited to, a cabinet, shed, or similar structure that prevents contact with runoff or spillage to the storm water conveyance system; or (2) protected by secondary containment structures such as berms, dikes, or curbs.
- The storage area must be paved and sufficiently impervious to contain leaks and spills.
- The storage area must have a roof or awning to minimize collection of storm water within the secondary containment area.

## **7. PROPERLY DESIGN TRASH STORAGE AREAS**

A trash storage area refers to an area where a trash receptacle or receptacles are located for use as a repository for solid wastes.

Loose trash and debris can be easily transported by the forces of water or wind into nearby storm drain inlets, channels, and/or creeks. All trash container areas must meet the following Structural or Treatment Control BMP requirements (individual single family residences are exempt from these requirements):

- Trash container areas must have drainage from adjoining roofs and pavement diverted around the area(s).
- Trash container areas must be screened or walled to prevent off-site transport of trash.

## **8. PROVIDE PROOF OF ONGOING BMP MAINTENANCE**

Improper maintenance is one of the most common reasons why water quality controls will not function as designed or which may cause the system to fail entirely. It is important to consider who will be responsible for maintenance of a permanent BMP, and what equipment is required to perform the maintenance properly. As part of project review, if a project applicant has included or is required to include, Structural or Treatment Control BMPs in project plans, the Permittee shall require that the applicant provide verification of maintenance provisions through such means as may be appropriate, including, but not limited to legal agreements, covenants, CEQA mitigation requirements and/or Conditional Use Permits.

For all properties, the verification will include the developer's signed statement, as part of the project application, accepting responsibility for all structural and treatment control BMP maintenance until the time the property is transferred and, where applicable, a signed agreement from the public entity assuming responsibility for Structural or Treatment Control BMP maintenance. The transfer of property to a private or public owner must have conditions requiring the recipient to assume responsibility for maintenance of any Structural or Treatment Control BMP to be included in the sales or lease agreement for that property, and will be the owner's responsibility. The condition of transfer shall include a provision that the property owners conduct maintenance inspection of all Structural or Treatment Control BMPs at least once a year and retain proof of inspection. For residential properties where the Structural or Treatment Control BMPs are located within a common area which will be maintained by a homeowner's association, language regarding the responsibility for maintenance must be included in the projects conditions, covenants and restrictions (CC&Rs). Printed educational materials will be required to accompany the first deed transfer to highlight the existence



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of the requirement and to provide information on what storm water management facilities are present, signs that maintenance is needed, how the necessary maintenance can be performed, and assistance that the Permittee can provide. The transfer of this information shall also be required with any subsequent sale of the property.

If Structural or Treatment Control BMPs are located within a public area proposed for transfer, they will be the responsibility of the developer until they are accepted for transfer by the County or other appropriate public agency. Structural or Treatment Control BMPs proposed for transfer must meet design standards adopted by the public entity for the BMP installed and should be approved by the County or other appropriate public agency prior to its installation.

#### **9. DESIGN STANDARDS FOR STRUCTURAL OR TREATMENT CONTROL BMPs**

Structural or Treatment control BMPs selected for use at any following categories of planning development project shall meet the design standards of this Section unless specifically exempted:

- a) Single-family hillside residential developments of one acre or more of surface area;
- b) Housing developments (includes single family homes, multifamily homes, condominium, and apartments) of ten units or more;
- c) A 100,000 square feet or more impervious surface area industrial/commercial development;
- d) Automotive service facilities (SIC 5013, 5014, 5541, 7532-7534 and 7536-7538) [5,000 square feet or more of surface area];
- e) Retail gasoline outlets [5,000 square feet or more impervious surface area and with projected Average Daily Traffic (ADT) of 100 or more vehicles]. Subsurface Treatment Control BMPs which may endanger public safety (i.e., create an explosive environment) are considered not appropriate;
- f) Restaurants (SIC 5812) [5,000 square feet or more of surface area];
- g) Parking lot 5,000 square feet or more of surface area or with 25 or more parking spaces;
- h) Projects located in, adjacent to or discharging directly to an ESA that meet the following threshold conditions:
  - (1) Discharge storm water and urban runoff that is likely to impact a sensitive biological species or habitat; and
  - (2) Create 2,500 square feet or more of impervious surface area.
- i) Redevelopment projects in subject categories that meet Redevelopment thresholds (see Redevelopment definition).

Post-construction Structural or Treatment Control BMPs shall be designed to:

- A. mitigate (infiltrate, filter or treat) storm water runoff from either:

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- a) Volumetric Treatment Control BMP
  - (1) the 85th percentile 24-hour runoff event determined as the maximized capture storm water volume for the area, from the formula recommended in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ ASCE Manual of Practice No. 87, (1998), or
  - (2) the volume of annual runoff based on unit basin storage water quality volume, to achieve 80 percent or more volume treatment by the method recommended in California Stormwater Best Management Practices Handbook – Industrial/ Commercial, (1993), or
  - (3) the volume of runoff produced from a 0.75 inch storm event, prior to its discharge to a storm water conveyance system, or
  - (4) the volume of runoff produced from a historical-record based reference 24-hour rainfall criterion for “treatment” (0.75 inch average for the Los Angeles County area) that achieves approximately the same reduction in pollutant loads achieved by the 85th percentile 24-hour runoff event.
  
- b) Flow Based Treatment Control BMP
  - (1) the flow of runoff produced from a rain event equal to at least 0.2 inches per hour intensity, or
  - (2) the flow of runoff produced from a rain event equal to at least two times the 85th percentile hourly rainfall intensity for Los Angeles County, or
  - (3) the flow of runoff produced from a rain event that will result in treatment of the same portion of runoff as treated using volumetric standards above.

## **10. PROVISIONS APPLICABLE TO INDIVIDUAL PRIORITY PROJECT CATEGORIES**

### REQUIREMENTS

#### **A. SINGLE-FAMILY HILLSIDE HOME**

- (1) Conserve natural areas;
- (2) Protect slopes and channels;
- (3) Provide storm drain system stenciling and signage;
- (4) Divert roof runoff to vegetated areas before discharge unless the diversion would result in slope instability; and
- (5) Direct surface flow to vegetated areas before discharge unless the diversion would result in slope instability

**B. 100,000 SQUARE FOOT COMMERCIAL DEVELOPMENTS**

**1. PROPERLY DESIGN LOADING/UNLOADING DOCK AREAS**

Loading/unloading dock areas have the potential for material spills to be quickly transported to the storm water conveyance system. To minimize this potential, the following design criteria are required:

- Cover loading dock areas or design drainage to minimize run-on and runoff of storm water.
- Direct connections to storm drains from depressed loading docks (truck wells) are prohibited.

**2. PROPERLY DESIGN REPAIR/MAINTENANCE BAYS**

Oil and grease, solvents, car battery acid, coolant and gasoline from the repair/maintenance bays can negatively impact storm water if allowed to come into contact with storm water runoff. Therefore, design plans for repair bays must include the following:

- Repair/maintenance bays must be indoors or designed in such a way that doesn't allow storm water runoff or contact with storm water runoff.
- Design a repair/maintenance bay drainage system to capture all washwater, leaks and spills. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

**3. PROPERLY DESIGN VEHICLE/EQUIPMENT WASH AREAS**

The activity of vehicle/equipment washing/steam cleaning has the potential to contribute metals, oil and grease, solvents, phosphates, and suspended solids to the storm water conveyance system. Include in the project plans an area for washing/steam cleaning of vehicles and equipment. The area in the site design must be:

- Self-contained and/ or covered, equipped with a clarifier, or other pretreatment facility, and properly connected to a sanitary sewer.

### **C. RESTAURANTS**

#### **1. PROPERLY DESIGN EQUIPMENT/ACCESSORY WASH AREAS**

The activity of outdoor equipment/accessory washing/steam cleaning has the potential to contribute metals, oil and grease, solvents, phosphates, and suspended solids to the storm water conveyance system. Include in the project plans an area for the washing/steam cleaning of equipment and accessories. This area must be:

- Self-contained, equipped with a grease trap, and properly connected to a sanitary sewer.
- If the wash area is to be located outdoors, it must be covered, paved, have secondary containment, and be connected to the sanitary sewer.

### **D. RETAIL GASOLINE OUTLETS**

#### **1. PROPERLY DESIGN FUELING AREA**

Fueling areas have the potential to contribute oil and grease, solvents, car battery acid, coolant and gasoline to the storm water conveyance system. The project plans must include the following BMPs:

- The fuel dispensing area must be covered with an overhanging roof structure or canopy. The canopy's minimum dimensions must be equal to or greater than the area within the grade break. The canopy must not drain onto the fuel dispensing area, and the canopy downspouts must be routed to prevent drainage across the fueling area.
- The fuel dispensing area must be paved with Portland cement concrete (or equivalent smooth impervious surface), and the use of asphalt concrete shall be prohibited.
- The fuel dispensing area must have a 2% to 4% slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents run-on of storm water to the extent practicable.
- At a minimum, the concrete fuel dispensing area must extend 6.5 feet (2.0 meters) from the corner of each fuel dispenser, or the length at which the hose and nozzle assembly may be operated plus 1 foot (0.3 meter), whichever is less.

## **E. AUTOMOTIVE REPAIR SHOPS**

### **1. PROPERLY DESIGN FUELING AREA**

Fueling areas have the potential to contribute oil and grease, solvents, car battery acid, coolant and gasoline to the storm water conveyance system. Therefore, design plans, which include fueling areas, must contain the following:

- The fuel dispensing area should be covered with an overhanging roof structure or canopy. The cover's minimum dimensions must be equal to or greater than the area within the grade break. The cover must not drain onto the fuel dispensing area and the downspouts must be routed to prevent drainage across the fueling area.
- The fuel dispensing areas must be paved with Portland cement concrete (or equivalent smooth impervious surface), and the use of asphalt concrete shall be prohibited.
- The fuel dispensing area must have a 2% to 4% slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents run-on of storm water.
- At a minimum, the concrete fuel dispensing area must extend 6.5 feet (2.0 meters) from the corner of each fuel dispenser, or the length at which the hose and nozzle assembly may be operated plus 1 foot (0.3 meter), whichever is less.
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### **2. PROPERLY DESIGN REPAIR/MAINTENANCE BAYS**

Oil and grease, solvents, car battery acid, coolant and gasoline from the repair/maintenance bays can negatively impact storm water if allowed to come into contact with storm water runoff. Therefore, design plans for repair bays must include the following:

- Repair/maintenance bays must be indoors or designed in such a way that doesn't allow storm water run-on or contact with storm water runoff.
- Design a repair/maintenance bay drainage system to capture all wash-water, leaks and spills. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.

### **3. PROPERLY DESIGN VEHICLE/EQUIPMENT WASH AREAS**

The activity of vehicle/equipment washing/steam cleaning has the potential to contribute metals, oil and grease, solvents, phosphates, and suspended solids to the storm water

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conveyance system. Include in the project plans an area for washing/steam cleaning of vehicles and equipment. This area must be:

- Self-contained and/or covered, equipped with a clarifier, or other pretreatment facility, and properly connected to a sanitary sewer or to a permitted disposal facility.

#### **4. PROPERLY DESIGN LOADING/UNLOADING DOCK AREAS**

Loading/unloading dock areas have the potential for material spills to be quickly transported to the storm water conveyance system. To minimize this potential, the following design criteria are required:

- Cover loading dock areas or design drainage to minimize run-on and runoff of storm water.
- Direct connections to storm drains from depressed loading docks (truck wells) are prohibited.

### **F. PARKING LOTS**

#### **1. PROPERLY DESIGN PARKING AREA**

Parking lots contain pollutants such as heavy metals, oil and grease, and polycyclic aromatic hydrocarbons that are deposited on parking lot surfaces by motor-vehicles. These pollutants are directly transported to surface waters. To minimize the offsite transport of pollutants, the following design criteria are required:

- Reduce impervious land coverage of parking areas
- Infiltrate runoff before it reaches storm drain system.
- Treat runoff before it reaches storm drain system

#### **2. PROPERLY DESIGN TO LIMIT OIL CONTAMINATION AND PERFORM MAINTENANCE**

Parking lots may accumulate oil, grease, and water insoluble hydrocarbons from vehicle drippings and engine system leaks.

- Treat to remove oil and petroleum hydrocarbons at parking lots that are heavily used (e.g. fast food outlets, lots with 25 or more parking spaces , sports event parking lots, shopping malls, grocery stores, discount warehouse stores)
- Ensure adequate operation and maintenance of treatment systems particularly sludge and oil removal, and system fouling and plugging prevention control

## **11. WAIVER**

A Permittee may, through adoption of an ordinance or code incorporating the treatment requirements of the SUSMP, provide for a waiver from the requirement if impracticability for a specific property can be established. A waiver of impracticability shall be granted only when all other Structural or Treatment Control BMPs have been considered and rejected as infeasible. Recognized situations of impracticability include, (i) extreme limitations of space for treatment on a redevelopment project, (ii) unfavorable or unstable soil conditions at a site to attempt infiltration, and (iii) risk of ground water contamination because a known unconfined aquifer lies beneath the land surface or an existing or potential underground source of drinking water is less than 10 feet from the soil surface. Any other justification for impracticability must be separately petitioned by the Permittee and submitted to the Regional Board for consideration. The Regional Board may consider approval of the waiver justification or may delegate the authority to approve a class of waiver justifications to the Regional Board Executive Officer. The supplementary waiver justification becomes recognized and effective only after approval by the Regional Board or the Regional Board Executive Officer. A waiver granted by a Permittee to any development or redevelopment project may be revoked by the Regional Board Executive Officer for cause and with proper notice upon petition.

## **12. MITIGATION FUNDING**

The Permittees may propose a management framework, for endorsement by the Regional Board Executive Officer, to support regional or sub-regional solutions to storm water pollution, where any of the following situation occur:

- a) A waiver for impracticability is granted
- b) Legislative funds become available;
- c) Off-site mitigation is required because of loss of environmental habitat; or
- d) An approved watershed management plan or a regional storm water mitigation plan exists that incorporates an equivalent or improved strategy for storm water mitigation.

## **13. LIMITATION ON USE OF INFILTRATION BMPs**

Three factors significantly influence the potential for storm water to contaminate ground water. They are (i) pollutant mobility, (ii) pollutant abundance in storm water, (iii) and soluble fraction of pollutant. The risk of contamination of groundwater may be reduced

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by pretreatment of storm water. A discussion of limitations and guidance for infiltration practices is contained in, *Potential Groundwater Contamination from Intentional and Non-Intentional Stormwater Infiltration, Report No. EPA/600/R-94/051, USEPA (1994)*.

In addition, the distance of the groundwater table from the infiltration BMP may also be a factor determining the risk of contamination. A water table distance separation of ten feet depth in California presumptively poses negligible risk for storm water not associated with industrial activity or high vehicular traffic.

Infiltration BMPs are not recommended for areas of industrial activity or areas subject to high vehicular traffic (25,000 or greater average daily traffic (ADT) on main roadway or 15,000 or more ADT on any intersecting roadway) unless appropriate pretreatment is provided to ensure groundwater is protected and the infiltration BMP is not rendered ineffective by overload.

#### **14. ALTERNATIVE CERTIFICATION FOR STORM WATER TREATMENT MITIGATION**

In lieu of conducting detailed BMP review to verify Structural or Treatment Control BMPs adequacy, a Permittee may elect to accept a signed certification from a Civil Engineer or a Licensed Architect registered in the State of California, that the plan meets the criteria established herein. The Permittee is encouraged to verify that certifying person(s) have been trained on BMP design for water quality, not more than two years prior to the signature date. Training conducted by an organization with storm water BMP design expertise (e.g., a University, American Society of Civil Engineers, American Society of Landscape Architects, American Public Works Association, or the California Water Environment Association) may be considered qualifying.



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## 15. RESOURCES AND REFERENCE

**Table 1**

SUGGESTED RESOURCES	HOW TO GET A COPY
<p><i>Start at the Source</i> (1999) by Bay Area Stormwater Management Agencies Association</p> <p>Detailed discussion of permeable pavements and alternative driveway designs presented.</p>	<p>Bay Area Stormwater Management Agencies Association</p> <p>2101 Webster Street Suite 500</p> <p>Oakland, CA</p> <p>510-286-1255</p>
<p><i>Design of Stormwater Filtering Systems</i> (1996) by Richard A. Claytor and Thomas R. Schuler</p> <p>Presents detailed engineering guidance on ten different storm water-filtering systems.</p>	<p>Center for Watershed Protection</p> <p>8391 Main Street</p> <p>Ellicott City, MD 21043</p> <p>410-461-8323</p>
<p><i>Better Site Design: A Handbook for Changing Development Rules in Your Community</i> (1998)</p> <p>Presents guidance for different model development alternatives.</p>	<p>Center for Watershed Protection</p> <p>8391 Main Street</p> <p>Ellicott City, MD 21043</p> <p>410-461-8323</p>
<p><i>Design Manual for Use of Bioretention in Stormwater Management</i> (1993)</p> <p>Presents guidance for designing bioretention facilities.</p>	<p>Prince George's County</p> <p>Watershed Protection Branch</p> <p>9400 Peppercorn Place, Suite 600</p> <p>Landover, MD 20785</p>
<p><i>Operation, Maintenance and Management of Stormwater Management</i> (1997)</p> <p>Provides a thorough look at stormwater practices including, planning and design considerations, programmatic and regulatory aspects, maintenance considerations, and costs.</p>	<p>Watershed Management Institute, Inc.</p> <p>410 White Oak Drive</p> <p>Crawfordville, FL 32327</p> <p>850-926-5310</p>
<p><i>California Storm Water Best Management Practices Handbooks</i> (1993) for Construction Activity, Municipal, and Industrial/Commercial</p> <p>Presents a description of a large variety of Structural BMPs, Treatment Control, BMPs and Source Control BMPs</p>	<p>Los Angeles County Department of Public Works</p> <p>Cashiers Office</p> <p>900 S. Fremont Avenue</p> <p>Alhambra, CA 91803</p> <p>626-458-6959</p>

## Appendix D

### Standard Urban Storm Water Mitigation Plan

<p>Second Nature: Adapting LA's Landscape for Sustainable Living (1999) by Tree People</p> <p>Detailed discussion of BMP designs presented to conserve water, improve water quality, and achieve flood protection.</p>	<p>Tree People</p> <p>12601 Mullholland Drive</p> <p>Beverly Hills, CA 90210</p> <p>818-753-4600 (?)</p>
<p>Florida Development Manual: A Guide to Sound Land and Water Management (1988)</p> <p>Presents detailed guidance for designing BMPs</p>	<p>Florida Department of the Environment 2600 Blairstone Road, Mail Station 3570</p> <p>Tallahassee, FL 32399</p> <p>850-921-9472</p>
<p>Stormwater Management in Washington State (1999) Vols. 1-5</p> <p>Presents detailed guidance on BMP design for new development and construction.</p>	<p>Department of Printing</p> <p>State of Washington Department of Ecology</p> <p>P.O. Box 798</p> <p>Olympia, WA 98507-0798</p> <p>360-407-7529</p>
<p><i>Maryland Stormwater Design Manual</i> (1999)</p> <p>Presents guidance for designing storm water BMPs</p>	<p>Maryland Department of the Environment</p> <p>2500 Broening Highway</p> <p>Baltimore, MD 21224</p> <p>410-631-3000</p>
<p><i>Texas Nonpoint Source Book</i> – Online Module (1998) <a href="http://www.txnpsbook.org">www.txnpsbook.org</a></p> <p>Presents BMP design and guidance information on-line</p>	<p>Texas Statewide Storm Water Quality Task Force</p> <p>North Central Texas Council of Governments</p> <p>616 Six Flags Drive</p> <p>Arlington, TX 76005</p> <p>817-695-9150</p>
<p><i>Urban Storm Drainage, Criteria Manual – Volume 3, Best Management Practices</i> (1999)</p> <p>Presents guidance for designing BMPs</p>	<p>Urban Drainage and Flood Control District</p> <p>2480 West 26th Avenue, Suite 156-B</p> <p>Denver, CO 80211</p> <p>303-45 303-455-6277</p>
<p><i>Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters</i> (1993) Report No. EPA-840-B-92-002.</p> <p>Provides an overview of, planning and design considerations, programmatic and regulatory aspects, maintenance considerations, and costs.</p>	<p>National Technical Information Service U.S. Department of Commerce</p> <p>Springfield, VA 22161</p> <p>800-553-6847</p>
<p>National Stormwater Best Management Practices (BMP) Database, Version 1.0</p> <p>Provides data on performance and evaluation of storm water BMPs</p>	<p>American Society of Civil Engineers</p> <p>1801 Alexander Bell Drive</p> <p>Reston, VA 20191</p> <p>703-296-6000</p>

## Appendix D

### Standard Urban Storm Water Mitigation Plan

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Caltrans Storm Water Quality Handbook: Planning and Design Staff Guide (Best Management Practices Handbooks (1998)  Presents guidance for design of storm water BMPs	California Department of Transportation P.O. Box 942874 Sacramento, CA 94274-0001 916-653-2975
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**Table 2**

**EXAMPLE BEST MANAGEMENT PRACTICES (BMPs)**

The following are examples of BMPs that can be used for minimizing the introduction of pollutants of concern that may result in significant impacts, generated from site runoff to the storm water conveyance system. (See Table 1: Suggested Resources for additional sources of information):

- Provide reduced width sidewalks and incorporate landscaped buffer areas between sidewalks and streets. However, sidewalk widths must still comply with regulations for the Americans with Disabilities Act and other life safety requirements.
- Design residential streets for the minimum required pavement widths needed to comply with all zoning and applicable ordinances to support travel lanes; on-street parking; emergency, maintenance, and service vehicle access; sidewalks; and vegetated open channels.
- Comply with all zoning and applicable ordinances to minimize the number of residential street cul-de-sacs and incorporate landscaped areas to reduce their impervious cover. The radius of cul-de-sacs should be the minimum required to accommodate emergency and maintenance vehicles. Alternative turnarounds should be considered.
- Use permeable materials for private sidewalks, driveways, parking lots, or interior roadway surfaces (examples: hybrid lots, parking groves, permeable overflow parking, etc.).
- Use open space development that incorporates smaller lot sizes.
- Reduce building density.
- Comply with all zoning and applicable ordinances to reduce overall lot imperviousness by promoting alternative driveway surfaces and shared driveways that connect two or more homes together.
- Comply with all zoning and applicable ordinances to reduce the overall imperviousness associated with parking lots by providing compact car spaces, minimizing stall dimensions, incorporating efficient parking lanes, and using pervious materials in spillover parking areas.
- Direct rooftop runoff to pervious areas such as yards, open channels, or vegetated areas, and avoid routing rooftop runoff to the roadway or the storm water conveyance system.
- Vegetated swales and strips
- Extended/dry detention basins
- Infiltration basin
- Infiltration trenches
- Wet ponds
- Constructed wetlands
- Oil/Water separators
- Catch basin inserts
- Continuous flow deflection/ separation systems

## **Appendix D**

### **Standard Urban Storm Water Mitigation Plan**

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- Storm drain inserts
- Media filtration
- Bioretention facility
- Dry-wells
- Cisterns
- Foundation planting
- Catch basin screens
- Normal flow storage/ separation systems
- Clarifiers
- Filtration systems
- Primary waste water treatment systems

**TABLE 3**

**HABITAT PROTECTION IN THE LOS ANGELES COUNTY AREA**

**Agency:**

Los Angeles County Department of Regional Planning

**Designation:**

Significant Ecological Areas (SEA)

**Definitions:**

Significant Ecological Areas (SEAs) are areas that have been identified by the Los Angeles County General Plan as containing unique or unusual species assemblages, or areas of habitat that are rapidly declining in the Los Angeles County. The SEAs were established to protect a special or sometimes unique collection of habitats and species from loss due to encroachment and human disturbances. However, SEAs are not intended to function as isolated preservation areas.

**Affected Areas:**

(See Figure 1)

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**Agency:**

Los Angeles Regional Water Quality Control Board

**Designation:**

Rare, Threatened, or Endangered Species (RARE)

**Definitions:**

An area listed in the Los Angeles Basin Plan as supporting the “RARE, Threatened, or Endangered Species (RARE)” beneficial use.

**Affected Areas:**

(See Table 2A)

**Agency:**

California Department of Fish & Game

**Designation:**

Significant Natural Area (SNA)

**Definitions:**

An area designated by the California Department of Fish and Game's Significant Natural Areas.

**Affected Area:**

N/A

FIGURE 1

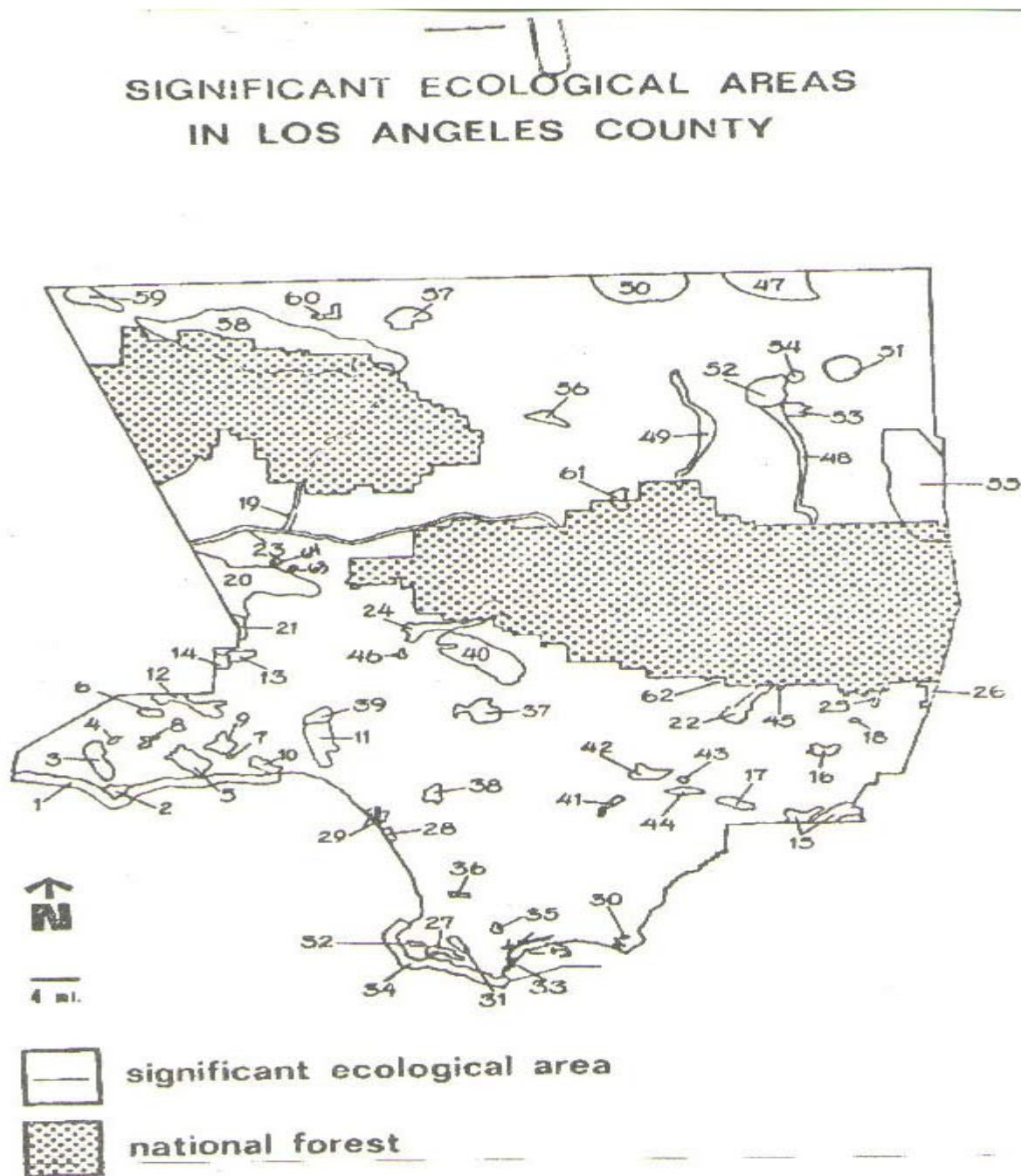




TABLE 2A

Water Quality Control Plan Los Angeles Region

**Chapter: Beneficial Uses**

Table 2-1

# Appendix D

## Standard Urban Storm Water Mitigation Plan

Los Angeles Regional Water Quality Control Board

Table 2-1. Beneficial Uses of Inland Surface Waters.

Table Page 1

WATERSHED <sup>a</sup>	Hydro. Unit No.	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MIGR	SPAWN	SHELL	WET <sup>b</sup>
<b>VENTURA COUNTY COASTAL STREAMS</b>																								
Los Sauces Creek	401.00	P*	I	I	I				I	I			I	I				E				I	I	
Powerty Canyon	401.00	P*	I	I	I				I	I			I	I				E				I	I	
Madrone Canyon	401.00	P*	I	I	I				I	I			I	I				E				I	I	
Javon Canyon	401.00	P*	I	I	I				I	I			I	I				E				I	I	
Padre Juan Canyon	401.00	P*	I	I	I				I	I			I	I				E				I	I	
McGrath Lake c	403.11								Ed	Ed	P					E		E		Ee		P	P	
Big Sycamore Canyon Creek	404.47	P*							I	I			I	E				E						
Little Sycamore Canyon Creek	404.45	P*							I	I			I					E		E		P		
<b>VENTURA RIVER WATERSHED</b>																								
Ventura River Estuary c	402.10								E	E	E		E			E	E	E		Ee		Ef	E	
Ventura River	402.10	P*	E	E	E	E			E	E			E	E				E		E		E	E	
Ventura River	402.20	E	E	E	E	E			E	E			E	E				E		Eg		E	E	
Canfield Larga	402.10	P*	I	I	I	I			I	I			I	I				E				I	I	
Lake Casillas	402.20	E	E	E	P	P			Ph	E			E	E				E		E				
Lake Casillas tributaries	402.20	E*			P	E			E	E			E	E				E		P		E	E	
Coyote Creek below dam	402.20	P*			E	E			P				E	E				E				E	E	
San Antonio Creek	402.32	E	E	E	E	E			E	E			E	E				E				E	E	
San Antonio Creek	402.32	E	E	E	E	E			E	E			E	E				E				E	E	
Lion Creek	402.31	I*	I	I	I	I			I	I			I	I				E				I	I	
Reeves Creek	402.32	I*	I	I	I	I			I	I			I	I				E				I	I	
Mirror Lake	402.20	P*			E				P	E			E					E						
Ojai Wetland	402.20	P*			E				P	E			E					E						
Mudjila Creek	402.20	P*			E				E	E			E					E				E	E	
Murieta Canyon Creek	402.20	P*			E				E	E			E					E				E	E	
North Fork Mudjila Creek	402.20	E*	E	E	E	E			E	E			E	E				E		E		E	E	
Mudjila Reservoir	402.20	E			E	E			E	E			E	E				E				E	E	
<b>SANTA CLARA RIVER WATERSHED</b>																								
Santa Clara River Estuary c	403.11								E	E	E					E	E	E		Ee		Ef	E	
Santa Clara River	403.11	P*	E	E	E	E			E	E			E	E				E				E	E	
Santa Clara River	403.21	P*	E	E	E	E			Ed	E			E	E				E		E		E	E	
Santa Clara River	403.31	P*	E	E	E	E			Ed	E			E	E				E		E		E	E	
Santa Clara River	403.41	P*	E	E	E	E			E	E			E	E				E		E		E	E	
Santa Clara River	403.51	P*	E	E	E	E			E	E			E	E				E		E		E	E	
Santa Clara River (Soledad Cyn)	403.55	E*	E	E	E	E			E	E			E	E				E		E		E	E	
Santa Paula Creek	403.21	P	E	E	E	E			E	E			E	E				E		E		E	E	

E: Existing beneficial use  
P: Potential beneficial use  
I: Intermittent beneficial use  
E, P, and I shall be protected as required  
\* As designated MUD designations are designated under SB 89-03 and RB 89-03  
Some designations may be considered for exemptions at a later date. (See pages 2-3.4 for more details.)  
Footnotes are consistent on all beneficial use tables.  
a Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries  
b Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.  
c Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody. Any regulatory action would require a detailed analysis of the area.  
d Coastal waterbodies which are also listed in Coastal Features Table (2-3) or in Wetlands Table (2-4).  
e Limited public access precludes full utilization.  
f One or more rare species utilize all ocean, bays, estuaries, and coastal wetlands for foraging and/or nesting.  
g Aquatic organisms utilize all bays, estuaries, lagoons and coastal wetlands, to a certain extent, for spawning and early development. This may include migration into areas which are heavily influenced by freshwater inputs.  
h Water contact recreational activities prohibited by Castles MWD.  
i Soledad Canyon is the habitat of the Unarmored Three-Spined Sickleback.

# Appendix D

## Standard Urban Storm Water Mitigation Plan

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

WATERSHED*	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MIGR	SPWN	SHELL	WET
<b>SANTA CLARA RIVER WATERSHED (CONT)</b>																									
Sisal Creek	403.21	P	E	P	E	E				E	E			E	E				E		Eg			E	E
Sisal Creek	403.22	P	E	P	E	E				E	E			E	E				E		Eg			E	E
Sespe Creek	403.31	P	E	E	E	E				E	E			E	E				E		Eg			E	E
Sespe Creek	403.32	P	E	P	E	E				E	E			E	E				E		Eg			E	E
Timber Creek	403.32	P*				E				E	E			E	E				E		E			E	E
Bear Canyon	403.32	P*				E				E	E			E	E				E		E			E	E
Trou Creek	403.32	P*				E				E	E			E	E				E		E			E	E
Piedra Blanca Creek	403.32	P*				E				E	E			E	E				E		E			E	E
Lon Canyon	403.32	P*				E				E	E			E	E				E		E			E	E
Rosa Valley Creek	403.32	P*				E				E	E			E	E				E		E			E	E
Howard Creek	403.32	P*				E				E	E			E	E				E		E			E	E
Tule Creek	403.32	P*				E				E	E			E	E				E		E			E	E
Potrero John Creek	403.32	P*				E				E	E			E	E				E		E			E	E
Hopper Creek	403.41	P*				E				E	E			E	E				E		Eg			E	E
Piru Creek	403.41	P	E	E	E	E				E	E			E	E				E		Eg			E	E
Piru Creek	403.42	P	E	E	E	E				E	E			E	E				E		Eg			E	E
Lake Piru	403.42	P	E	E	E	E				E	E			E	E				E		E			E	E
Pyramid Lake	403.42	P	E	E	E	E				E	E			E	E				E		E			E	E
Cañada de los Alamos	403.43	I*				I				I	I			I	I				E		E			E	E
Gorman Creek	403.43	I*				I				I	I			I	I				E		E			E	E
Lockwood Creek	403.44	I*				I				I	I			I	I				E		E			E	E
Tapo Canyon	403.41	P*				P				P	E			E	E				E		E			E	E
Castaic Creek	403.51	I				I				I	E			E	E				E		E			E	E
Castaic Lagoon	403.51	E*				E				E	E			E	E				E		E			E	E
Gastate Lake	403.51	E				E				E	E			E	E				E		E			E	E
Eldersberry Forebay	403.51	E				E				E	E			E	E				E		E			E	E
Elizabeth Lake Canyon	403.51	I				I				I	E			E	E				E		E			E	E
San Francisco Canyon I	403.51	I				I				I	I			E	E				E		E			E	E
South Fork (Santa Clara River)	403.51	I				I				I	I			E	E				E		E			E	E
Drinkwater Reservoir	403.51	P*				E				Pk	E			E	E				E		E			E	E
Bouquet Canyon	403.51	E				E				Em	E			E	E				E		E			E	E
Bouquet Canyon	403.52	P				E				Em	E			E	E				E		E			E	E
Bouquet Canyon	403.51	I				I				I	I			E	E				E		E			E	E
Dry Canyon Reservoir	403.51	E				E				Pk	E			E	E				E		E			E	E
Bouquet Reservoir	403.52	E				E				Pk	E			E	E				E		E			E	E

E: Existing beneficial use  
P: Potential beneficial use  
I: Intermittent beneficial use  
E, P, and I shall be prioritized as required  
\* Assigned MUN designations are designated under SB 86-43 and RB 86-03. Some designations may be considered for exemptions at a later date. (See pages 2-3.4 for more details.)  
Footnotes are consistent on all beneficial use tables  
a. Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries.  
b. Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.  
c. Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody.  
d. Any regulatory action would require a detailed analysis of the area.  
e. Concor refuge.  
f. Out of service.  
g. Public access to reservoir and its surrounding watershed is prohibited by Los Angeles County Department of Public Works.  
h. The majority of the reach is intermittent; there is a small area of rising ground water creating perennial flow.  
i. Access prohibited by Los Angeles County Department of Public Works in the concrete-channelized areas.



# Standard Urban Storm Water Mitigation Plan

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

Table 2-7. Beneficial Uses of Inland Surface Waters (Continued).

WATERSHED*		Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MGR	SPWN	SHELL	WET*	
SANTA CLARA RIVER WATERSHED (CONT)																											
Mint Canyon Creek	403.51	I	I	I	I	I	I	I			Im	I			I					E							
Mint Canyon Creek	403.53	I	I	I	I	I	I	I			Im	I			I					E							
Agua Dulce Canyon Creek	403.54	I	I	I	I	I	I	I							I					E							
Agua Dulce Canyon Creek	403.55	I*				I	I	I			I	I			I					E							
Aliso Canyon Creek	403.55	P*				P	E								I					E						E	
Lake Hughes	403.57	P	P	P	P	P	P	P			E	E			E					E							
Muniz Lake	403.51	P*	P	P	P	E	P				E	E			E					E							
Lake Elizabeth	403.51	P	P	P	P	P	P				E	E			E					E							
CALLEGUAS-CONEJO CREEK WATERSHED																											
Mugu Lagoon c	403.11																										
Calleguas Creek Estuary c	403.11								E		Pn	E	Ed						E	Ed							
Calleguas Creek	403.11	P*				E	E	E	P		Pn	E	E						E	E						E	
Calleguas Creek	403.12	P*		E	E	E					Eq	E	E						E	E						E	
Revolon Slough	403.11	P*		P		E	E				Eq	E	E						E	E						E	
Beardsley Wash	403.61	P*						E											E	E						E	
Conejo Creek	403.12	P*		E	E	E	E				Eq	E	E						E	E						E	
Conejo Creek	403.63	P*					I	I			I	I			I				E	E						E	
Arroyo Conejo	403.64	P*					I	I			I	I			I				E	E						E	
Arroyo Conejo	403.68	P*					I	I			I	I			I				E	E						E	
Arroyo Santa Rosa	403.63	P*					I	I			I	I			I				E	E						E	
Arroyo Santa Rosa	403.65	P*					I	I			I	I			I				E	E						E	
North Fork Arroyo Conejo	403.64	P*				E	E				E	E			E				E	E						E	
Arroyo Las Posas	403.12	P*		P	P	P	E				E	E			E				E	E						E	
Arroyo Las Posas	403.62	P*		P	P	P	E				E	E			E				E	E						E	
Arroyo Simi	403.62	P*		I			I	I			I	I			I				E	E						E	
Arroyo Simi	403.67	I*		I		P	P	I			I	I			I				E	E						E	
Tapo Canyon Creek	403.66	I*					I				I	I			I				E	E						E	
Tapo Canyon Creek	403.67	I*				P	P	I			I	I			I				E	E						E	
Gillbrand Canyon Creek	403.66	P*					I	I			I	I			I				E	E						E	
Gillbrand Canyon Creek	403.67	P*					I				I	I			I				E	E						E	
Lake Band (Wood Ranch Reservoir)	403.67	E	E	E	E	P					Pr	Er			E				E	E						E	
LOS ANGELES COUNTY COASTAL STREAMS																											
Arroyo Sequit	404.44	P*					I				E	E			E				E	E						E	
San Nicolas Canyon Creek	404.45	P*									I	I			I				E	E						E	

**Existing beneficial use**

a Potential beneficial use

b Intermittent beneficial use

c Permanent beneficial use

d P, and I shall be protected as required by the California Fish and Game Code.

e Asterisked MUN designations are listed under USFWS 86-53 and IB 89-03. Some designations may be considered for exemptions at a later date. (See pages 2-3.4 for more details).

f Aquatic organisms utilize all bays, estuaries, lagoons and coastal wetlands, to a certain extent, for spawning and early development. This may include migration into areas which are heavily influenced by freshwater inputs from Los Angeles County DWP in the concrete-channelled areas.

m Access prohibited by Los Angeles County DWP in the concrete-channelled areas.

n Area is currently under control of the Navy; swimming is prohibited.

o Marine habitats of the Channel Islands and Mugu Lagoon serve as prepped haul-out areas for one or more species (i.e., sea lions).

p Habitat of the Clapper Rail.

q Whenever flow conditions are suitable.

r Public access prohibited by Calleguas MWD.



# Appendix D

## Standard Urban Storm Water Mitigation Plan

Los Angeles Regional Water Quality Control Board

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

Table Page 4

WATERSHED*	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MIGR	SPWN	SHELL	WET
<b>LA COUNTY COASTAL STREAMS (CONT)</b>																									
Los Alisos Canyon Creek	404.42	P*								I	I			I					E		E				
Lachua Canyon Creek	404.42	P*								I	I			I					E		E				
Endral Canyon Creek	404.41	P*								I	I			I					E		E				
Trancas Canyon Creek	404.37	E*								Em	E	E	E	E				E		E	Ee	Pf	Pf		E
Dume Creek (Zuma Canyon)	404.36	E*								E	E	E	E	E					E		E	P	P		
Ramirez Canyon Creek	404.35	I*								I	I			I					E		E				
Escondido Canyon Creek	404.34	I*								I	I			I					E		E				
Latigo Canyon Creek	404.33	I*								I	I			I					E		E				
Solstice Canyon Creek	404.32	E*								E	E	E	E	E					E		E	P	P		
Pueco Canyon Creek	404.31	I*								I	I			I					E		E				
Corral Canyon Creek	404.31	I*								I	I			I					E		E				
Carbon Canyon Creek	404.16	P*								I	I			I					E		E				
Las Flores Canyon Creek	404.15	P*								I	I			I					E		E				
Piedra Gorda Canyon Creek	404.14	P*								I	I			I					E		E				
Pena Canyon Creek	404.13	P*								I	I			I					E		E				
Tuna Canyon Creek	404.12	P*								I	I			I					E		E				
Tupanga Lagoon c	404.11	P*								E	E	E	E	E					E		Ee	Ef	Pf		E
Topanga Canyon Creek	404.11	P*								I	I			I					E		E				
Santa Ynez Canyon	405.13	P*								I	E			I					E		E				
Santa Ynez Lake (Lake Shrine)	405.13	P*								Pk	E			I					E		E				
Santa Monica Canyon Channel	405.13	P*								Ps	I			P					P		E				
Rubic Canyon Creek	405.13	P*								I	I			I					E		E				
Sullivan Canyon Creek	405.13	P*								I	I			I					E		E				
Mandeville Canyon Creek	405.13	P*								I	I			I					E		E				
Coastal Streams of Palos Verdes Canyon Streams trib. to Coastal	405.11	P*								I	I			I					E		E				
Streams of Palos Verdes	405.12	P*								I	I			I					E		E				
Bobby Slough and Harbor Lake	405.12	P*								E	E	E	E	E					E		E				
Los Cerritos Wetlands c	405.15									E	E	E	E	E					E		Ea	Pf	Pf		E
Los Cerritos Channel Estuary c	405.12									E	E	E	E	E					E		Ea	Pf	Pf		E
Sims Pond	405.15	P*								P	E			P					E		Ea	Pf	Pf		E
Los Cerritos Channel to Estuary	405.15	P*								P	I			I					E		Ea	Pf	Pf		E
Golden Lagoon	405.12									E	E	E	E	E					E		E				
Los Cerritos Marsh	405.12									P	E			P					E		E				
Stone Canyon Reservoir	405.13	E*								Pk	E			P					E		E				
Hollywood Reservoir	405.14	E*								Pk	E			P					E		E				
Palmdale Reservoir	405.14	E*								Pk	E			P					E		E				
Upper Foothill Canyon Reservoir	405.14	E*								Pk	E			P					E		E				

Footnotes are consistent on all beneficial use tables.

a. Wetlands are listed multiple times if they cross hydrologic area or subarea boundaries

b. Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.

c. Wetlands designated as WET may have wetlands habitat associated with only a portion of the waterbody.

d. Any regulatory action would require a detailed analysis of the area.

e. Coastal waterbodies which are also listed in Coastal Features Table (2-3) or in Wetlands Table (2-4).

f. One or more rare species utilize all ocean, bays, estuaries, and coastal wetlands for foraging and/or nesting.

g. Aquatic organisms utilize all bays, estuaries, lagoons and coastal wetlands, to a certain extent, for spawning and early development.

h. This may include migration into areas which are heavily influenced by freshwater inputs.

i. Existing beneficial use

j. Potential beneficial use

k. Public access to reservoir and its surrounding watershed is prohibited by the Los Angeles Department of Water and Power.

l. Intermittent beneficial use

m. Access prohibited by Los Angeles County DPW in the concrete-channelized areas.

n. E, P, and I shall be protected as required

o. Designated MUN designations as required

p. Designated under SB 86-03 and RB 89-03.

q. Some designations may be considered for exemptions at a later date. (See pages 2-3.4 for more details).

r. Rare applies only to Agua Magma Canyon & Sepulveda Canyon areas.

s. These reservoirs are covered and thus inaccessible.



# Appendix D

## Standard Urban Storm Water Mitigation Plan

Los Angeles Regional Water Quality Control Board

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

WATERSHED*	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MIGR	SPAWN	SHELL	WET <sup>h</sup>
<b>MALIBU CREEK WATERSHED</b>																									
Malibu Lagoon c	404.21	P*						E		E	E						E	E	E		E <sub>0</sub>	Ef	Ef	E	E
Malibu Creek	404.21	P*								E	E						E	E	E		E	E	E	E	E
Gold Creek	404.21	P*								E	E						E	E	E		E	E	P	E	E
Las Virgenes Creek	404.22	P*								Em	E						E	E	E		E	P	P	E	E
Century Reservoir	404.21	P*								E	E										E				
Malibu Lake	404.24	P*						E		Em	E						E	E	E		E				E
Medea Creek	404.23	P*								Im	E						E	E	E		E				E
Medea Creek	404.24	P*								Em	E						E	E	E		E				E
Lindero Creek	404.23	P*								I	E														
Triunfo Creek	404.24	P*								Im	E														
Triunfo Creek	404.25	P*								Im	E														
Westlake Lake	404.25	P*						E		I	E										E				
Potrero Valley Creek	404.25	P*								I	E														
Lake Eleanor Creek	404.25	P*								I	E														
Lake Eleanor	404.25	P*								I	E														
Las Virgenes (Westlake) Reservoir	404.25	E	E	E	E					PKV	E										E				E
Hidden Valley Creek	404.26	P*								I	E														
Lake Sherwood	404.26	P*								E	E														E
<b>BALLONA CREEK WATERSHED</b>																									
Ballona Creek Estuary c.w	405.13							E		E	E						E	E	E		E <sub>0</sub>	Ef	Ef	E	E
Ballona Lagoon Venice Canale c	405.13									E	E						E	E	E		E <sub>0</sub>	Ef	Ef	E	E
Ballona Wetlands c	405.13									E	E						E	E	E		E <sub>0</sub>	Ef	Ef	E	E
Del Rey Lagoon c	405.13	P*						E		E	E						E	E	E		E <sub>0</sub>	Ef	Ef	E	E
Ballona Creek to Estuary	405.13	P*								Ps	E														
Ballona Creek	405.15	P*								Ps	E														
<b>DOMINGUEZ CHANNEL WATERSHED</b>																									
Dominguez Channel Estuary c.w	405.12							P		Es	E						E	E	E		E <sub>0</sub>	Ef	Ef		
Dominguez Channel to Estuary	405.12	P*								Ps	E										E				
<b>LOS ANGELES RIVER WATERSHED</b>																									
Los Angeles River Estuary c.w	405.12	P*	E	P	P			E		E	E						E	E	E		E <sub>0</sub>	Ef	Ef	P	E
Los Angeles River to Estuary	405.12	P*	P	P	P			E		Es	E						E	E	E		E	P	P	P	
Los Angeles River	405.15	P*	P	P	P			E		Es	E						E	E	E		E	P	P	P	
Compton Creek	405.15	P*						E		Es	E														E

Footnotes are consistent on all beneficial use tables.

E: Existing beneficial use

P: Potential beneficial use

I: Interim beneficial use

E, P, and I shall be protected as required

\* Asterisked MUN designations are designated under SB 88-03 and RB 88-03. Some designations may be considered for exemptions at a later date. (See pages 2-3, 4 for more details).

a Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries

b Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.

c Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody. Any regulatory action would require a detailed analysis of the area.

d Coastal waterbodies which are also listed in Coastal Features Table (2-3) or in Wetlands Table (2-4).

e One or more rare species utilize all oyster, bay, estuarine, and coastal wetlands for foraging and/or nesting.

f Aquatic organisms utilize all bays, estuaries, lagoons and coastal wetlands, to a certain extent, for spawning and early development. This may include migration into areas which are heavily influenced by freshwater inputs.

g Public access to reservoir and its surrounding watershed is prohibited by LADWP.

h Access prohibited by Los Angeles County DPW in the concrete-lined areas.

i Public water supply reservoir. Owner prohibits public entry.

j These areas are engineered channels. All references to Total Plumes in Regional Board documents are functionally equivalent to estuaries.

k Access prohibited by Los Angeles County DPW.

# Appendix D

## Standard Urban Storm Water Mitigation Plan

Los Angeles Regional Water Quality Control Board

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

WATERSHED <sup>a</sup>	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MIGR	SPWN	SHELL	WET <sup>b</sup>
<b>LA RIVER WATERSHED (CONTINUED)</b>																									
Rio Hondo below Spreading Grounds	405.15	P*																							
Rio Hondo to Spreading Grounds	405.15	P*																							
Rio Hondo	405.41	P*																							
Alhambra Wash	405.41	P*																							
Rubio Wash	405.41	P*																							
Rubio Canyon	405.31	P*																							
Eaton Wash	405.41	P*																							
Eaton Wash (below dam)	405.31	P*																							
Eaton Wash (above dam)	405.31	P*																							
Eaton Dam and Reservoir	405.31	P*																							
Eaton Canyon Creek	405.31	P*																							
Arcadia Wash (lower)	405.41	P*																							
Arcadia Wash (upper)	405.33	P*																							
Santa Anita Wash (lower)	405.41	P*																							
Santa Anita Wash (upper)	405.33	P*																							
Little Santa Anita Canyon Creek	405.33	P*																							
Big Santa Anita Reservoir	405.33	P*																							
Santa Anita Canyon Creek	405.33	P*																							
Winter Creek	405.33	P*																							
East Fork Santa Anita Canyon	405.41	P*																							
Sawpit Wash	405.41	P*																							
Sawpit Canyon Creek	405.41	P*																							
Sawpit Dam and Reservoir	405.41	P*																							
Monrovia Canyon Creek	405.41	P*																							
Arroyo Seco S. Of Devil's Gates. (L)	405.15	P*																							
Arroyo Seco S. Of Devil's Gates (U)	405.31	P*																							
Devil's Gate Reservoir (lower)	405.31	P*																							
Devil's Gate Reservoir (upper)	405.32	P*																							
Arroyo Seco	405.32	P*																							
Millard Canyon Creek	405.32	P*																							
El Prieto Canyon Creek	405.32	P*																							
Little Bear Canyon Creek	405.32	P*																							
Verdugo Wash	405.24	P*																							
Halls Canyon Channel	405.24	P*																							
Snowy Canyon	405.32	P*																							
Pickens Canyon	405.24	P*																							
Shields Canyon	405.24	P*																							

Footnotes are consistent on all beneficial use tables.

a. Watersheds are listed multiple times if they cross hydrologic area or subarea boundaries.

b. Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.

c. Watersheds designated as WET may have wetlands habitat associated with only a portion of the waterbody.

d. Any regulatory action would require a detailed analysis of the area.

e. Access prohibited by Los Angeles County DPW in concrete-channelized areas.

f. Owner prohibits entry.

g. Some designations may be considered for exemptions at a later date. (See pages 2-3.4 for more details).



# Appendix D

## Standard Urban Storm Water Mitigation Plan

Los Angeles Regional Water Quality Control Board

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

Table Page 7

WATERSHED*	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MIGR	SPWN	SHELL	WET
<b>LA RIVER WATERSHED (CONT)</b>																									
Dunsmore Canyon Creek	405.24	I	I	I																					
Burbank Western Channel	405.21	P*																							
La Tuna Canyon Creek	405.21	P*																							
Tujunga Wash	405.21	P*																							
Hansen Flood Control Basin & Lakes	405.23	P*																							
Lopez Canyon Creek	405.21	P*																							
Little Tujunga Canyon Creek	405.23	P*																							
Kagel Canyon Creek	405.23	P*																							
Big Tujunga Canyon Creek	405.23	P*																							
Upper Big Tujunga Canyon Creek	405.23	P*																							
Haines Canyon Creek	405.23	P*																							
Vasquez Creek	405.23	P*																							
Clear Creek	405.23	P*																							
Big Tujunga Reservoir	405.23	P*																							
Mill Creek	405.23	P*																							
Pacoima Wash	405.21	P*																							
Pacoima Reservoir	405.22	P*																							
Pacoima Canyon Creek	405.22	P*																							
Stetson Canyon Creek	405.22	P*																							
Wilson Canyon Creek	405.22	P*																							
May Canyon Creek	405.21	P*																							
Sepulveda Flood Control Basin	405.21	P*																							
Bull Creek	405.21	P*																							
Los Angeles Reservoir	405.21	E*																							
Lower Van Norman Reservoir	405.21	E*																							
Solano Reservoir	405.21	E*																							
Caballero Creek	405.21	P*																							
Aliso Canyon Wash and Creek	405.21	P*																							
Limekiln Canyon Wash	405.21	P*																							
Brown Canyon Wash and Creek	405.21	P*																							
Arroyo Galabasso	405.21	P*																							
McCoy Canyon Creek	405.21	P*																							
Dry Canyon Creek	405.21	P*																							
Ball Creek	405.21	P*																							
Chaparral Reservoir	405.21	E																							
Dayton Canyon Creek	405.21	P*																							

Footprints are consistent on all beneficial use tables.

E: Existing beneficial use  
P: Potential beneficial use  
I: Intermittent beneficial use  
E, P, and I shall be protected as required  
\* Asterisked MUN designations are designated under SB 88-83 and RB 89-03. Some designations may be considered for exemptions at a later date. (See pages 2-3, 4 for more details).

a: Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries  
b: Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody.  
Any regulatory action would require a detailed analysis of the area.  
k: Public access to reservoir and its surrounding watershed is prohibited by Los Angeles Department of Water and Power.  
m: Access prohibited by Los Angeles County DPW in concrete-channelized areas.  
u: This reservoir is covered and thus inaccessable.  
y: Currently dry and no plans for restoration.



# Appendix D

## Standard Urban Storm Water Mitigation Plan

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

Los Angeles Regional Water Quality Control Board

Table Page 8

WATERSHED*	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MGR	SPWN	SHELL	WET
<b>LOS ANGELES RIVER WATERSHED (CONT)</b>																									
<b>ISOLATED LAKES AND RESERVOIRS:</b>																									
Eagle Rock Reservoir	405.23	E*								PK-U															
Echo Lake	405.15	P*								P															
El Dorado Lakes	405.15	P*								E															
Elysian Reservoir	405.15	E*								PK															E
Endino Reservoir	405.21	E*								PK															
Harbors Reservoir	405.15	E*								PK															
Lincoln Park Lake	405.15	P*								P															
Silver Lake Reservoir	405.15	E*								PK															
Toluca Lake	405.21	P*								PK															
<b>SAN GABRIEL RIVER WATERSHED</b>																									
San Gabriel River Estuary c/w	405.15									E															
San Gabriel River: Firestone Blvd-Exaltary	405.15	P*								Em															
San Gabriel River: Whittier N-Firestone	405.15	P*								Em															
San Gabriel River	405.41	P*								Im															
San Gabriel River: Main Stem z	405.42	E								E															
North Fork San Gabriel River	405.43	E								E															
West Fork San Gabriel River	405.43									E															
East Fork San Gabriel River	405.43									E															
Coyote Creek to Estuary	405.15	P*								Pm															
Whittier Narrows Flood Control Basin	405.41	P*								E															
Legg Lake	405.41	P*								E															
San Jose Creek	405.41	P*								E															
San Jose Creek	405.51	P*								Pm															
Puente Creek	405.41	P*								P															
Thompson Wash	405.52	P*								Im															
Thompson Creek	405.53	P*								P															
Thompson Creek: Dent & Reservoir	405.53	P*								P															
Walnut Creek Wash	405.41	P*								Im															
Big Dalton Wash	405.41	P*								Pm															
Big Dalton Canyon Creek	405.41	P*								P															
Marble Canyon	405.41	P*								P															
Big Dalton Dam & Reservoir	405.41	P*								Px															

E: Existing beneficial use  
P: Potential beneficial use  
I: Intermittent beneficial use  
E, P, and I shall be protected as required  
\* Asterisked MUN designations are designated under SB 86-43 and RB 89-03  
Some designations may be considered for exemptions at a later date. (See pages 2-3, 4 for more details).

Footnotes are consistent on all beneficial use tables.  
a Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries.  
b Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.  
c Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody.  
Any regulatory action would require a detailed analysis of the area.  
d Coastal waterbodies which are also listed in Coastal Features Table (2-3) or in Wetlands Table (2-4).  
e One or more rare species utilize all ocean, bays, estuaries, and coastal wetlands for foraging and/or nesting.  
f Aquatic organisms utilize all bays, estuaries, lagoons, and coastal wetlands to a certain extent, for spawning and early development.  
g This may include migration into areas which are heavily influenced by freshwater inputs.  
h Public access to reservoir and its surrounding watershed is prohibited by the Los Angeles Department of Water and Power.

These areas are engineered channels. All references to Tidal Prisms in Regional Bay Area are for tidal prisms equivalent to estuaries.  
m Access prohibited by Los Angeles County DPW in concrete-channelized areas.  
x Owner prohibits entry.  
u This reservoir is covered and thus inaccessible.  
z Listed twice in this table (see next page).

# Appendix D

## Standard Urban Storm Water Mitigation Plan

Los Angeles Regional Water Quality Control Board

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

Table Page 9

WATERSHED #	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WLD	BKOL	RARE	MIGR	SPWN	SHELL	WET
<b>SAN GABRIEL RIVER WATERSHED (CONT)</b>																									
Bell Canyon Creek	405.41	P*																							
Live Oak Wash	405.41	P*																							
Live Oak Canyon Creek	405.41	P*																							
San Dimas Wash (lower)	405.41	P*																							
San Dimas Wash (upper)	405.44	P*																							
San Dimas Dam and Reservoir	405.44	E*																							
San Dimas Canyon Creek	405.44	E*																							
West Fork San Dimas Canyon	405.44	E*																							
Wolfkill Canyon	405.44	E*																							
Poddingstone Dam and Reservoir	405.52	E*																							
Poddingstone Wash	405.51	E*																							
Marshall Creek and Wash	405.41	E*																							
Marshall Creek and Wash	405.53	E*																							
Live Oak Wash	405.52	E*																							
Live Oak Creek and Wash	405.53	E*																							
Live Oak Dam and Reservoir	405.53	E*																							
Emerald Creek and Wash	405.53	E*																							
Santa Fe Flood Control Basin	405.41	P*																							
Bradbury Canyon Creek	405.41	P*																							
Spinks Canyon Creek	405.41	P*																							
Maddock Canyon Creek	405.43	P*																							
Ven Tass Canyon	405.43	P*																							
Fish Canyon Creek	405.43	P*																							
Roberts Canyon Creek	405.43	P*																							
Morris Reservoir	405.43	E																							
San Gabriel Reservoir	405.43	E																							
<b>UPPER SAN GABRIEL RIVER TRIBUTARIES</b>																									
San Gabriel River: Main Stem z	405.43	E																							
Cattle Canyon Creek	405.43	P*																							
Coldwater Canyon Creek	405.43	P*																							
Coe Canyon Creek	405.43	P*																							
East Fork San Gabriel River	405.43	P*																							
Allison Gulch	405.43	P*																							
Fish Fork	405.43	P*																							

Footnotes are consistent on all beneficial use tables.

E: Existing beneficial use

P: Potential beneficial use

I: Intermittent beneficial use

E, P, and I shall be protected as required

\* Affiliated MUN designations are designated under SB 86-43 and RB 89-03. Some designations may be considered for exemptions at a later date. (See pages 2-3,4 for more details).

a Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries

b Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately

c Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody.

d Any regulatory action would require a detailed analysis of the area.

m Access prohibited by Los Angeles County DPW in concrete channelized areas.

x Owner prohibits entry.

z Also listed on previous page.



# Appendix D

## Standard Urban Storm Water Mitigation Plan

Los Angeles Regional Water Quality Control Board

Table 2-1. Beneficial Uses of Inland Surface Waters (Continued).

Table Page 10

WATERSHED*	Hydro. Unit No.	MUN	IND	PROC	AGR	GWR	FRSH	NAV	POW	REC1	REC2	COMM	AQUA	WARM	COLD	SAL	EST	MAR	WILD	BIOL	RARE	MIGR	SPAWN	SHELL	WET <sup>a</sup>
<b>SAN GABRIEL RIVER WATERSHED (CONT)</b>																									
North Fork San Gabriel River	405.43	P*																							
Richards Canyon	405.43	P*																							
Coldbrook Creek	405.43	P*																							
Cedar Creek	405.43	P*																							
Crystal Lake	405.43	P*																							
Soldier Creek	405.43	P*																							
West Fork San Gabriel River	405.43	P*																							
Bear Creek	405.43	P*																							
Cogswell Reservoir	405.43	P*																							
Devils Canyon Creek	405.43	P*																							
<b>ISLAND WATERCOURSES</b>																									
Anacapa Island	406.10	P*																							
San Nicolas Island	406.20	P*																							
Santa Barbara Island	406.30	P*																							
Santa Catalina Island	406.40	E*																							
Middle Ranch System	406.40	P*																							
San Clemente Island	406.50	E*																							
<b>SAN ANTONIO CREEK WATERSHED ab</b>																									
San Antonio Dam And Reservoir	481.23	E*																							
San Antonio Canyon Creek	481.23	E																							

Footnotes are consistent on all beneficial use tables.

a. Waterbodies are listed multiple times if they cross hydrologic area or subarea boundaries.

b. Beneficial use designations apply to all tributaries to the indicated waterbody, if not listed separately.

c. Waterbodies designated as WET may have wetlands habitat associated with only a portion of the waterbody.

ab. Any regulatory action would require a detailed analysis of the area.

aa. Habitat of the Channel Island Fox.

ab. This watershed is also in Region 8 (801.23).

E: Existing beneficial use  
P: Potential beneficial use  
I: Interim beneficial use  
E, P, and I shall be protected as required  
\* Asterisked MUN designations are designated under SB 86-43 and RB 89-03. Some designations may be considered for exemptions at a later date. (See pages 2-3,4 for more details).

**Appendix D**

**Standard Urban Storm Water Mitigation Plan**

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## **Appendix D**

### **Standard Urban Storm Water Mitigation Plan**

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**Appendix D**

**Standard Urban Storm Water Mitigation Plan**

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